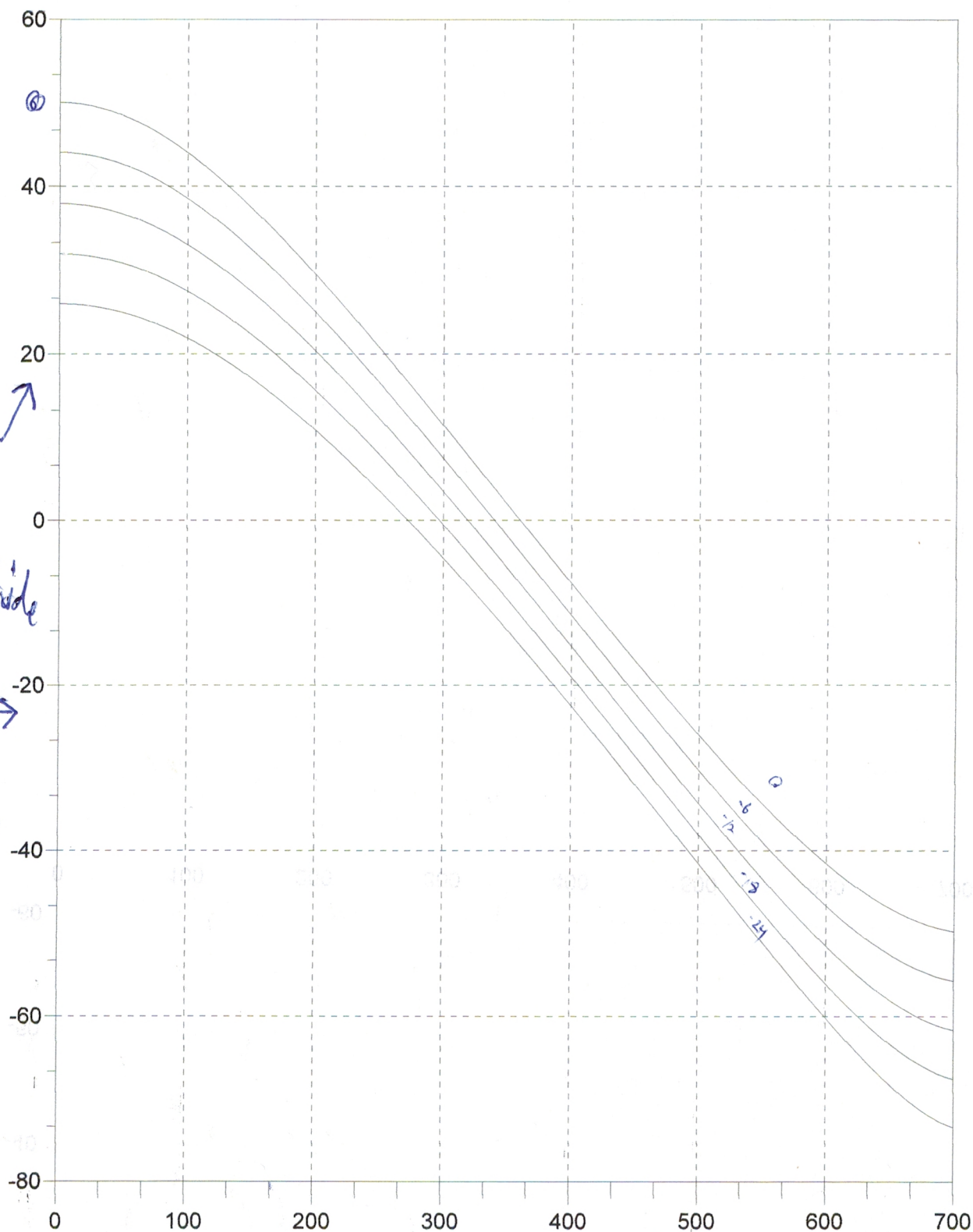


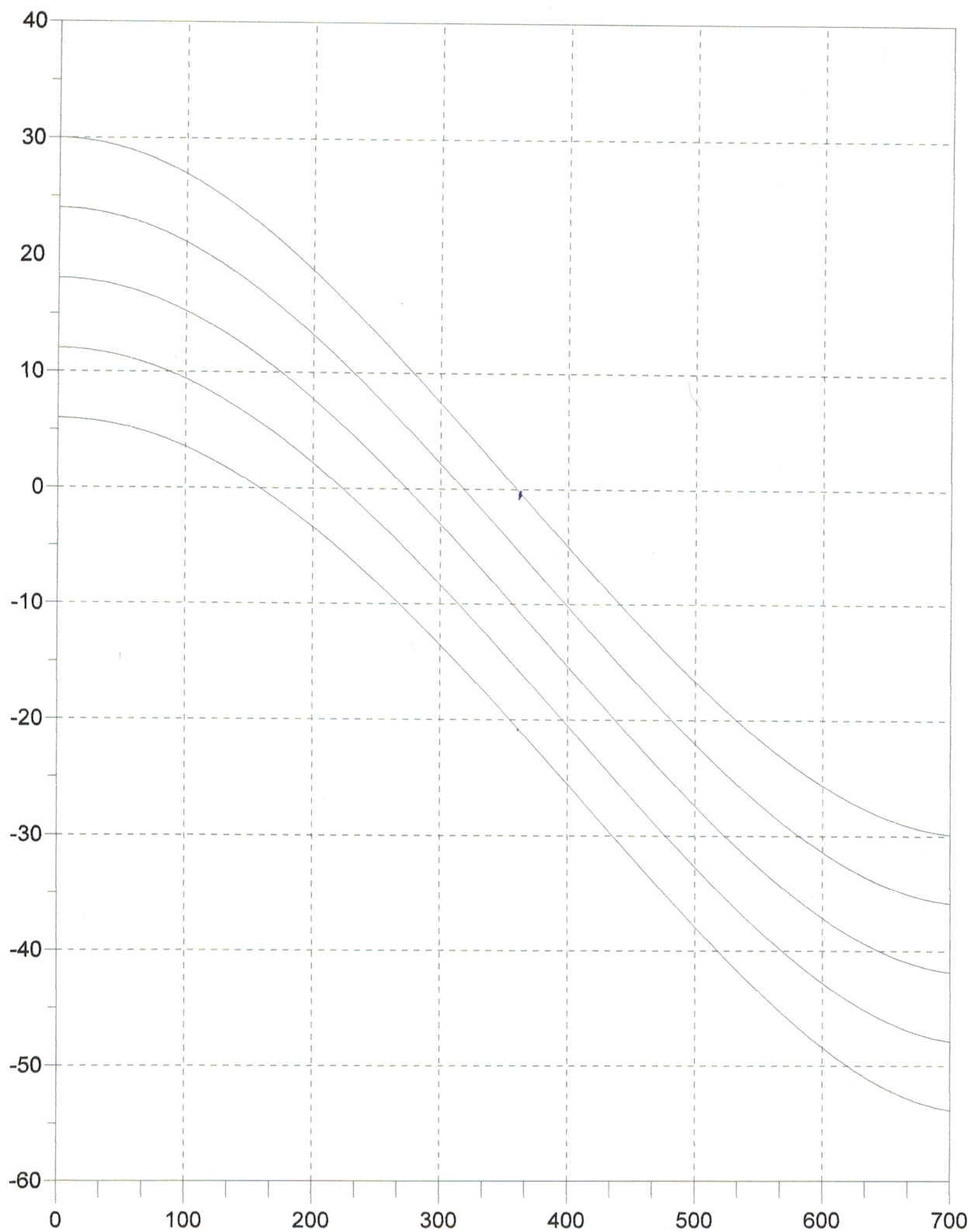
New York



What is its attitude?

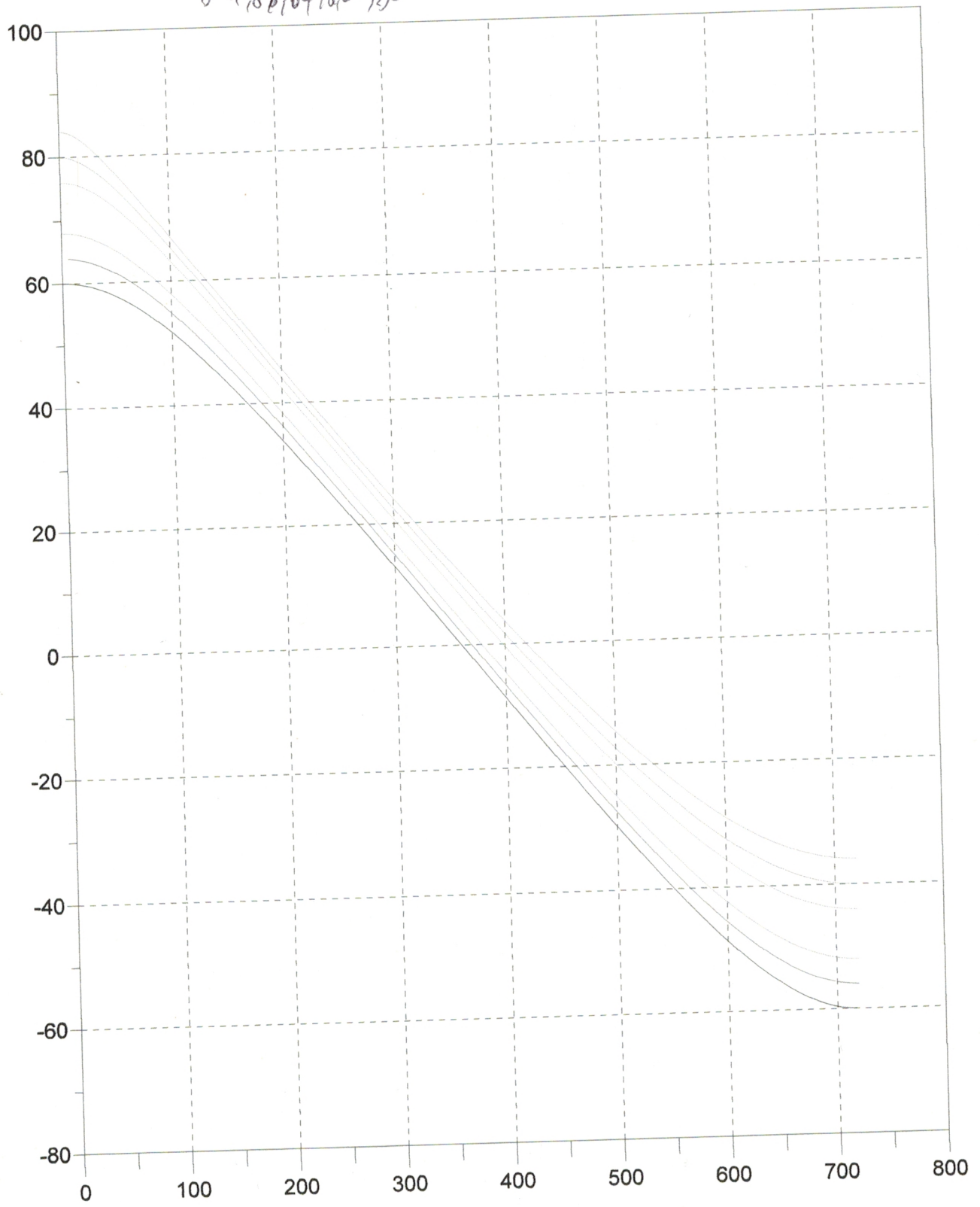
minutes after various stars (different declinations)

62 Moscow



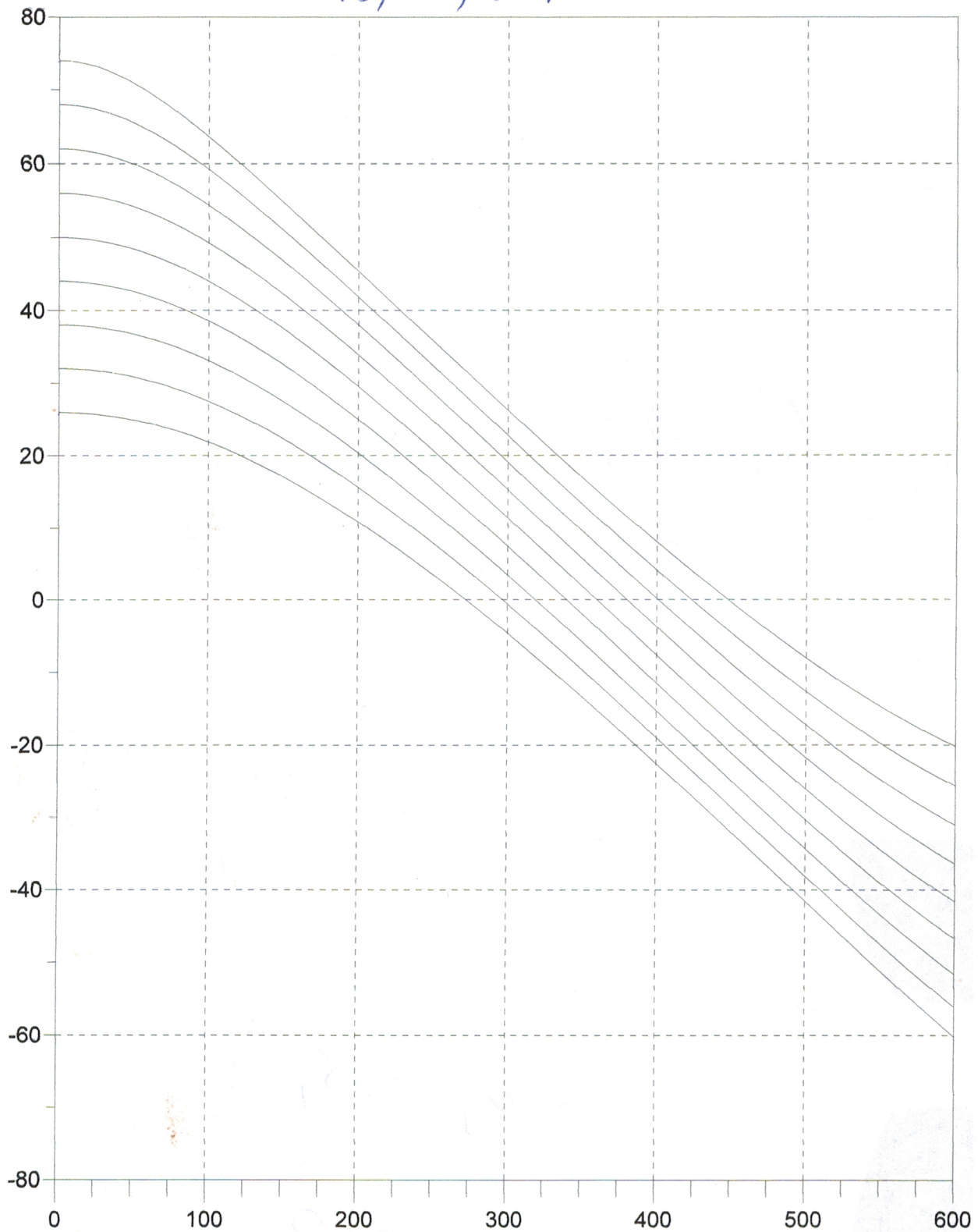
curves  
0 4 8 16 20 24

0 4 8 16 20 24



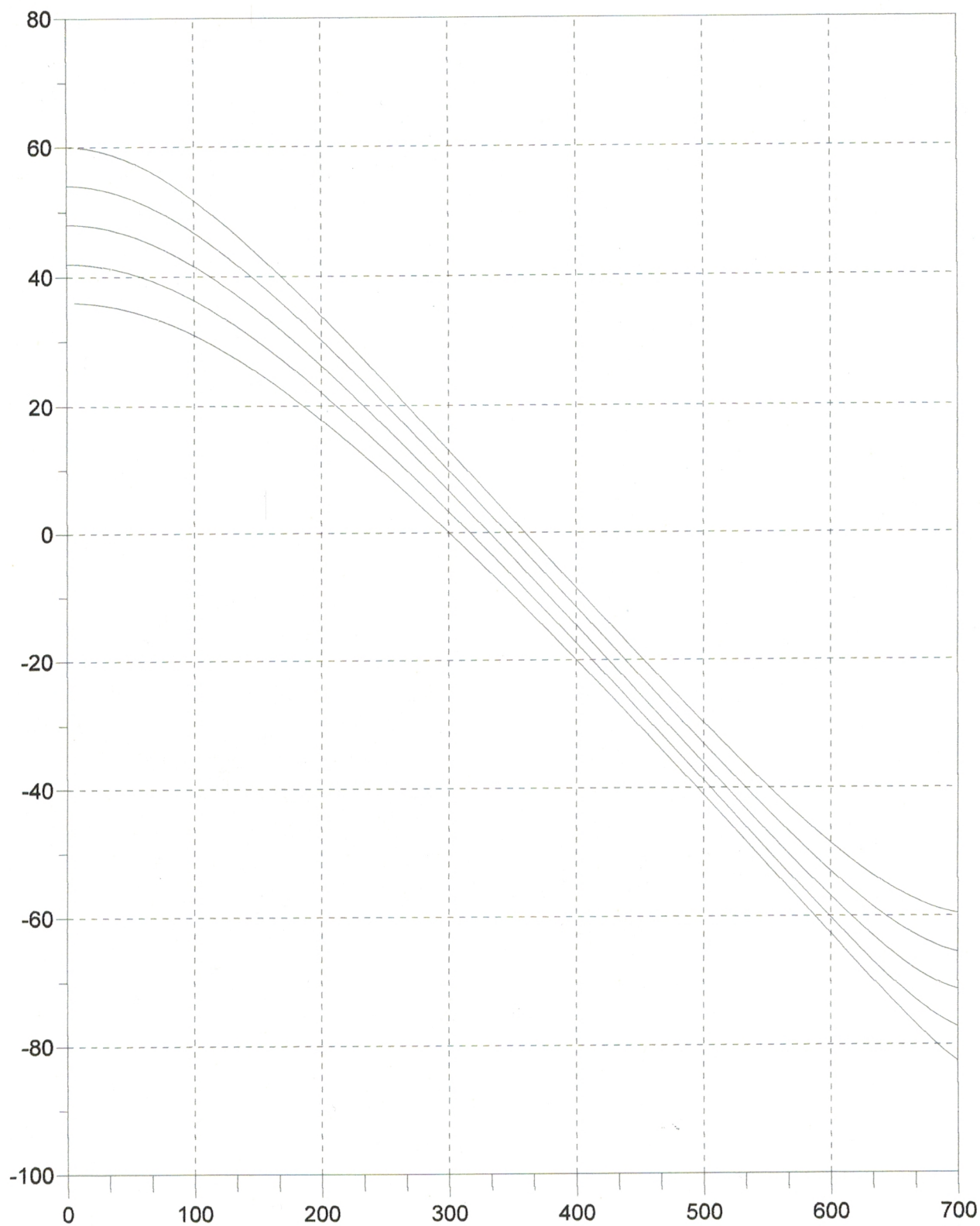
of curves delineations:

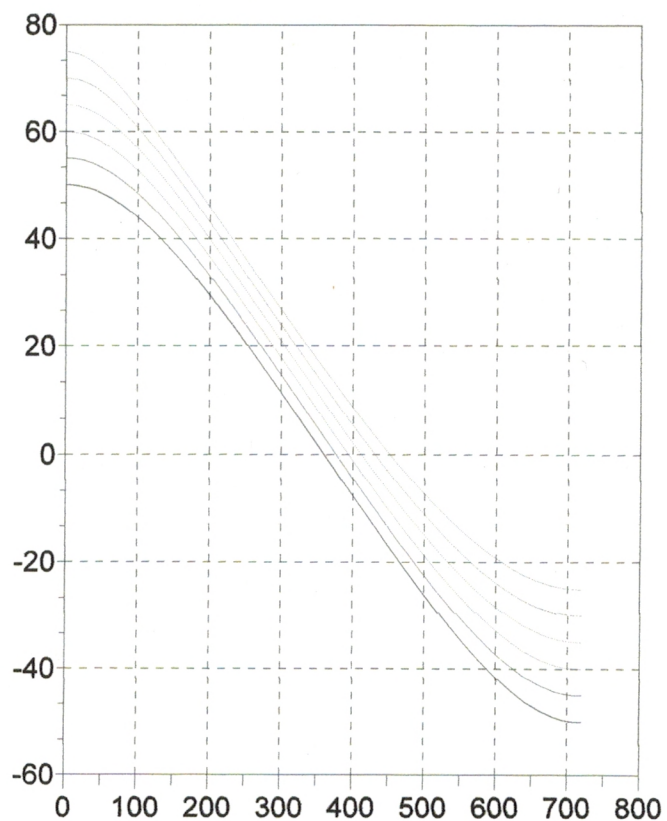
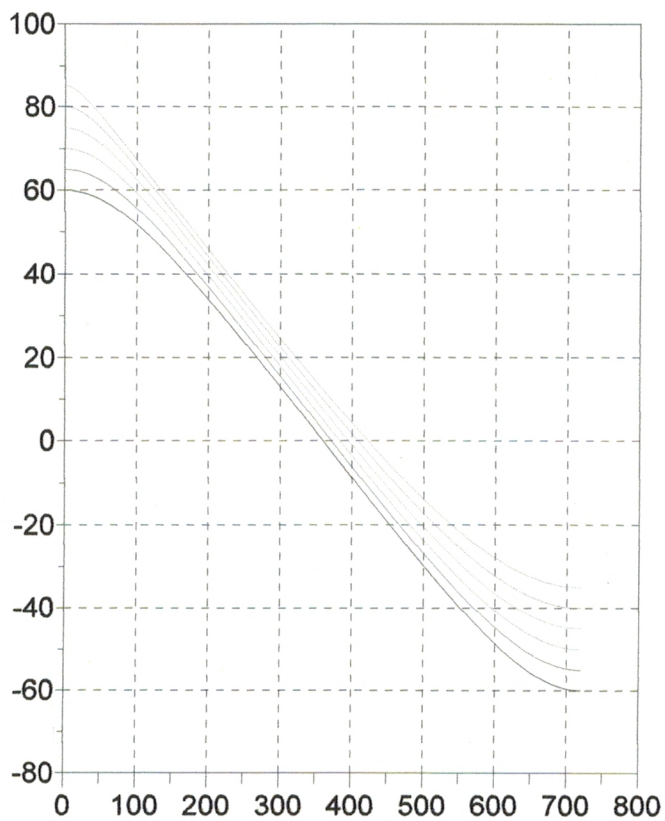
for  $\begin{matrix} -24, -12, -6 \\ 0, 6, 12, 18, 24 \end{matrix}$



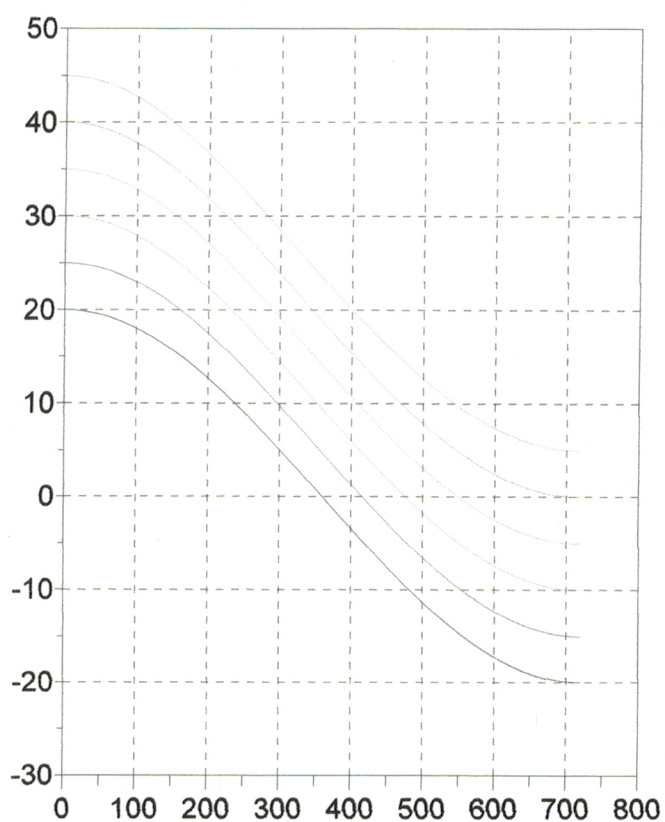
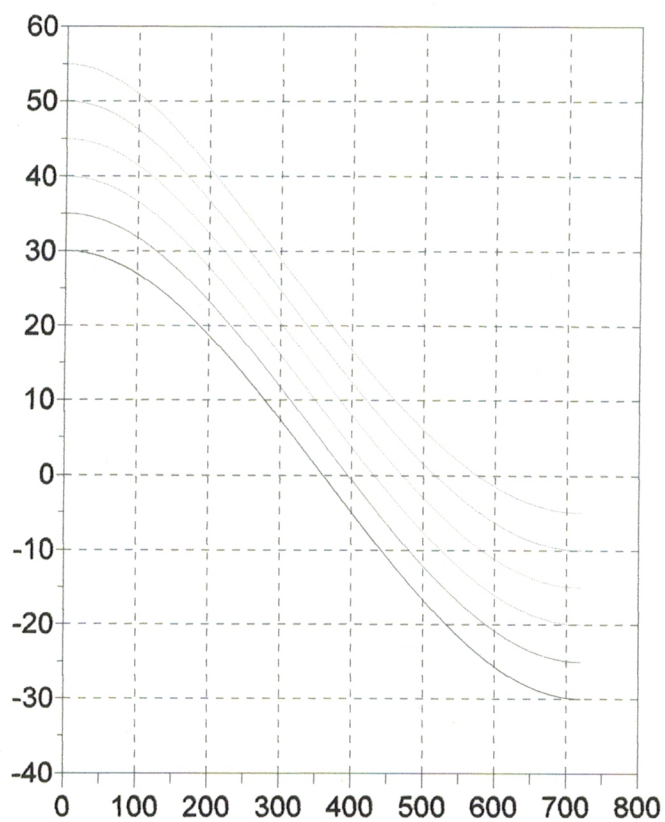
(h)  $30^\circ$

dec  
0, -6, -12, -18, -24



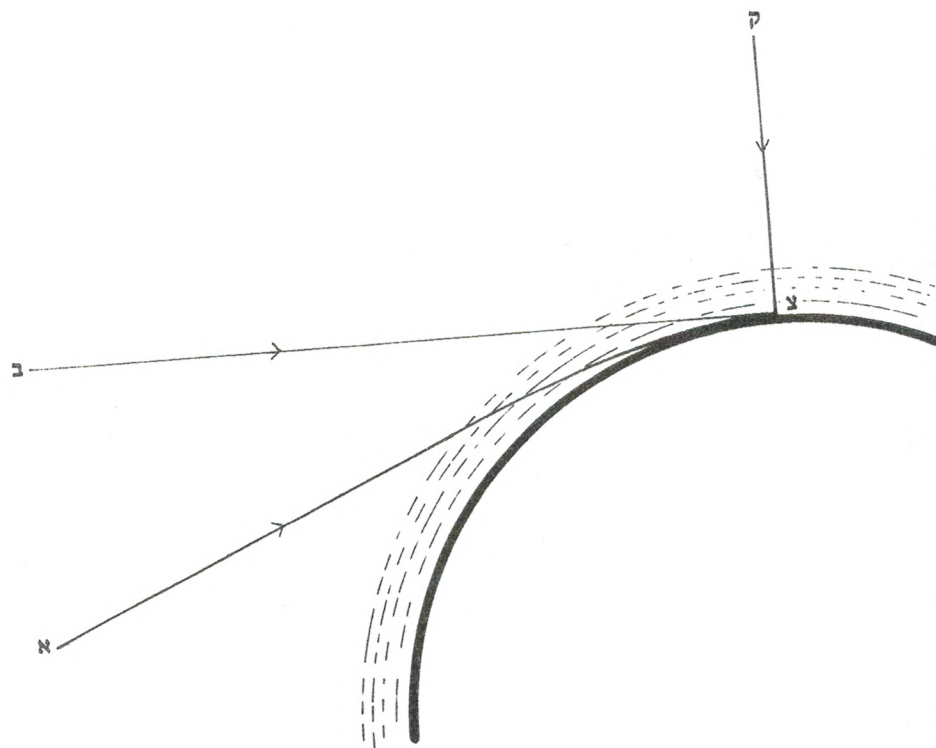


from 30  
 (lowest curve = dec 0, 5, 10, 15, 20, 25)



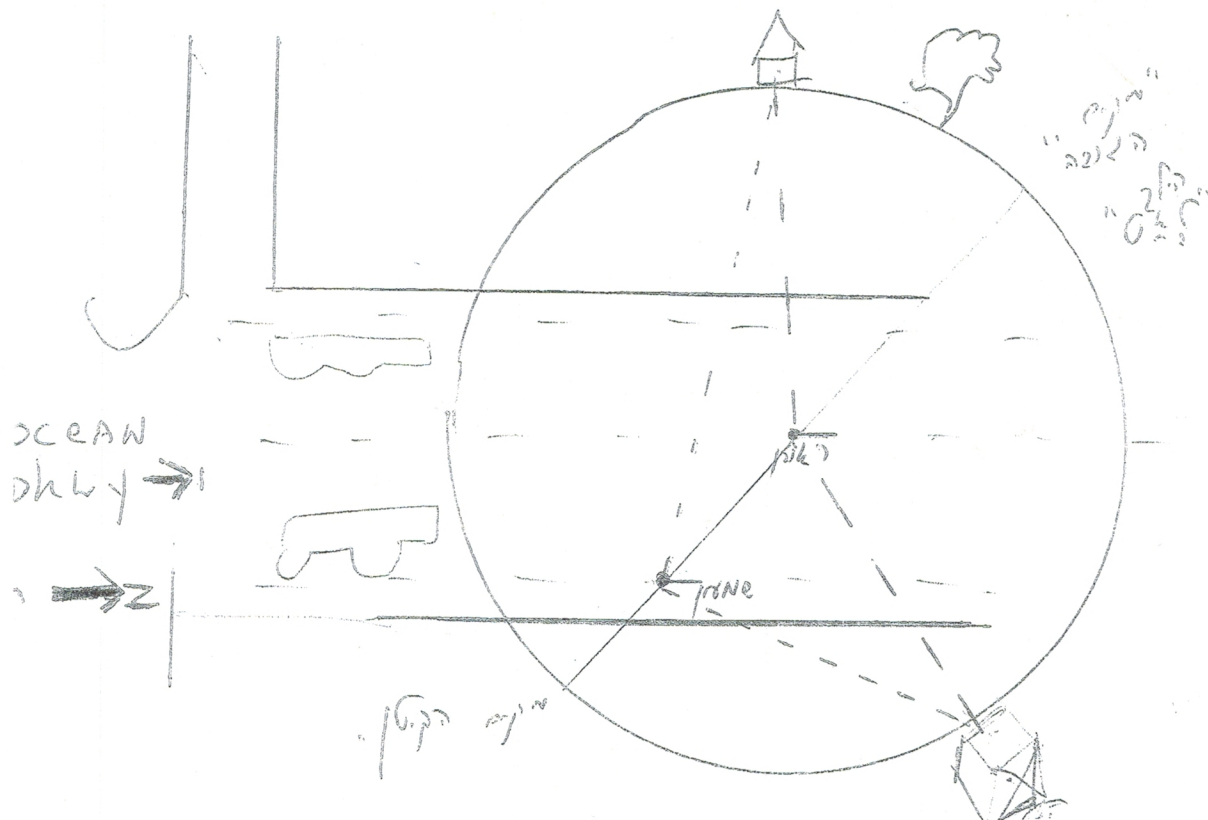
60

Latitude 70

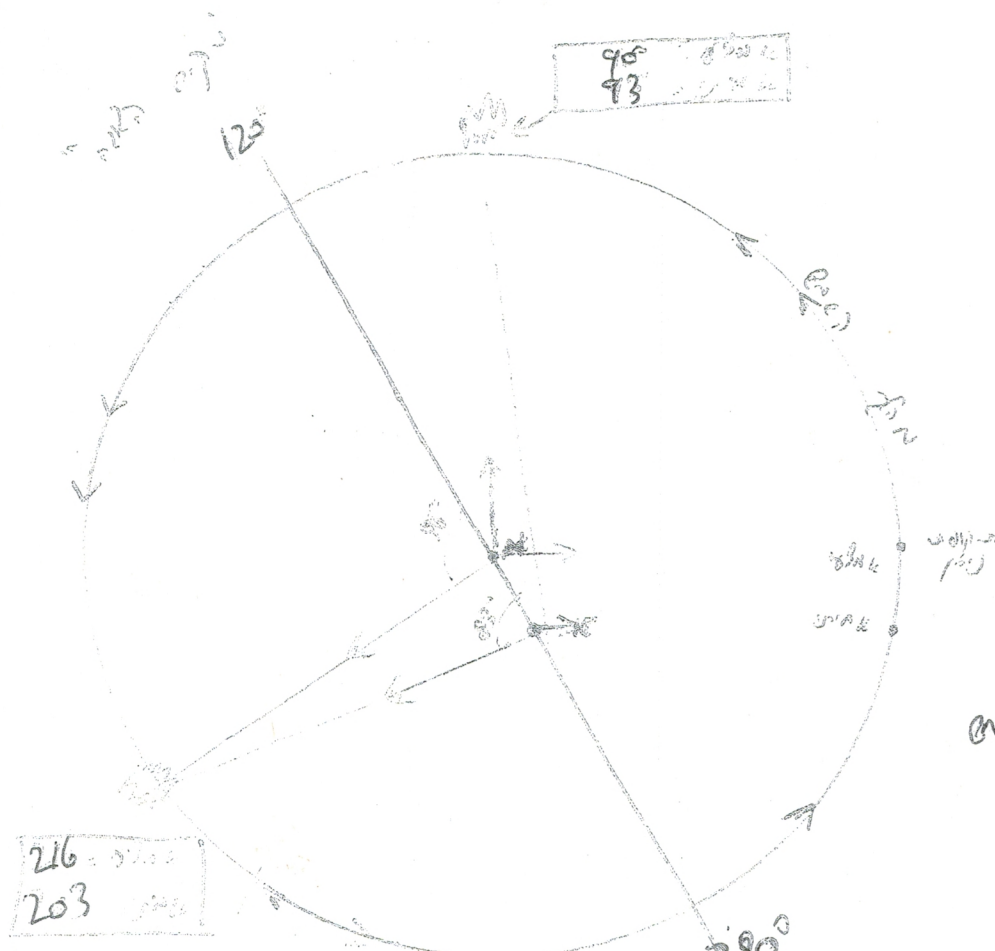


ציור 7. קרני השמש הבאות מכוון א מכופפות ע"י מעטה האויר. לצופה העומד בנקודה צ על פני כדור הארץ נראות הקרניים כמגיעות מנקודה ב. הזווית בין א ל ב נקראת זווית השבירה וערכה המירבי מעט יותר מחצי מעלה כאשר השמש קרובה לאופק. כאשר השמש בקדקד אין שבירה מפני שהקרניים פוגעות במעטה האויר בזווית ישרה. הזווית בציור מוגזמת לשם הדגמה.

212-352-7051	חש	מלסח	ישראל	מחצית	302
\$3	אמריקא	\$5	הממשלה	אלימיר	ישראל
			מדינה	נא	



Mar. 21 00:00



30,000,000,000 miles

✓

even  $\frac{N}{2}$   
odd  $N$

→ 01

# TABLE A: EQUATION OF TIME

(MIN:SEC)

YELLOW = FAST

WHITE = SLOW

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1	3:12	13:33	12:34	4:08	2:51	2:25	3:33	6:16	0:12	10:05	16:20	11:11
2	3:40	13:41	12:23	3:50	2:59	2:16	3:45	6:13	0:07	10:24	16:22	10:49
3	4:08	13:48	12:11	3:32	3:06	2:06	3:57	6:09	0:26	10:43	16:23	10:26
4	4:36	13:55	11:58	3:14	3:12	1:56	4:08	6:04	0:45	11:02	16:23	10:02
5	5:03	14:01	11:45	2:57	3:18	1:46	4:19	5:59	1:05	11:20	16:22	9:38
6	5:30	14:06	11:31	2:40	3:23	1:36	4:29	5:53	1:25	11:38	16:20	9:13
7	5:57	14:10	11:17	2:23	3:27	1:25	4:39	5:46	1:45	11:56	16:18	8:48
8	6:23	14:14	11:03	2:06	3:31	1:14	4:49	5:39	2:05	12:13	16:15	8:22
9	6:49	14:16	10:48	1:49	3:35	1:03	4:58	5:31	2:26	12:30	16:11	7:56
10	7:14	14:18	10:33	1:32	3:38	0:51	5:07	5:23	2:47	12:46	16:06	7:29
11	7:38	14:19	10:18	1:16	3:40	0:39	5:16	5:14	3:08	13:02	16:00	7:02
12	8:02	14:20	10:02	1:00	3:42	0:27	5:24	5:05	3:29	13:18	15:53	6:34
13	8:25	14:19	9:46	0:44	3:44	0:15	5:32	4:55	3:50	13:33	15:46	6:06
14	8:48	14:18	9:30	0:29	3:44	0:03	5:39	4:44	4:11	13:47	15:37	5:38
15	9:10	14:16	9:13	0:14	3:44	0:10	5:46	4:33	4:32	14:01	15:28	5:09
16	9:32	14:13	8:56	0:01	3:44	0:23	5:52	4:21	4:53	14:14	15:18	4:40
17	9:52	14:10	8:39	0:15	3:43	0:36	5:58	4:09	5:14	14:27	15:07	4:11
18	10:12	14:06	8:22	0:29	3:41	0:49	6:03	3:57	5:35	14:39	14:56	3:42
19	10:32	14:01	8:04	0:43	3:39	1:02	6:08	3:44	5:56	14:51	14:43	3:13
20	10:50	13:55	7:46	0:56	3:37	1:15	6:12	3:30	6:18	15:02	14:30	2:43
21	11:08	13:49	7:28	1:00	3:34	1:28	6:15	3:16	6:40	15:12	14:16	2:13
22	11:25	13:42	7:10	1:21	3:30	1:41	6:18	3:01	7:01	15:22	14:01	1:43
23	11:41	13:35	6:52	1:33	3:24	1:54	6:20	2:46	7:22	15:31	13:45	1:13
24	11:57	13:27	6:34	1:45	3:21	2:07	6:22	2:30	7:43	15:40	13:26	0:43
25	12:12	13:18	6:16	1:56	3:16	2:20	6:24	2:14	8:04	15:47	13:11	0:13
26	12:26	13:09	5:58	2:06	3:10	2:33	6:25	1:58	8:25	15:54	12:53	0:17
27	12:39	12:59	5:40	2:16	3:03	2:45	6:25	1:41	8:46	16:01	12:34	0:47
28	12:51	12:48	5:21	2:26	2:56	2:57	6:24	1:24	9:06	16:06	12:14	1:16
29	13:03	12:42	5:02	2:35	2:49	3:09	6:23	1:07	9:26	16:11	11:54	1:45
30	13:14		4:44	2:43	2:41	3:21	6:21	0:49	9:46	16:15	11:33	2:14
31	13:24		4:26		2:33		6:19	0:31		16:18		2:43

RA ene (5)  
242.5

JAN ene (8)  
103 128  
11:56

JAN ene (9)  
103 128  
11:56

RA ene  
3.5 40  
(3.5 x 4 = 14)

Jan 3 283

July 5. 103

91 Million

94.5 million

.9856474  
per day

NOV 24

Jan 1 62 (1)

280° = 128 ene

31.7 = 38

9856474  
38 37.5

280 - 37.5 = 242.5  
Nov 24 ene ↑

103° (3)

242.5 - 103 = (4)

139.5  
ene ↑

242.5 - 125 = 241.25  
ene ↑

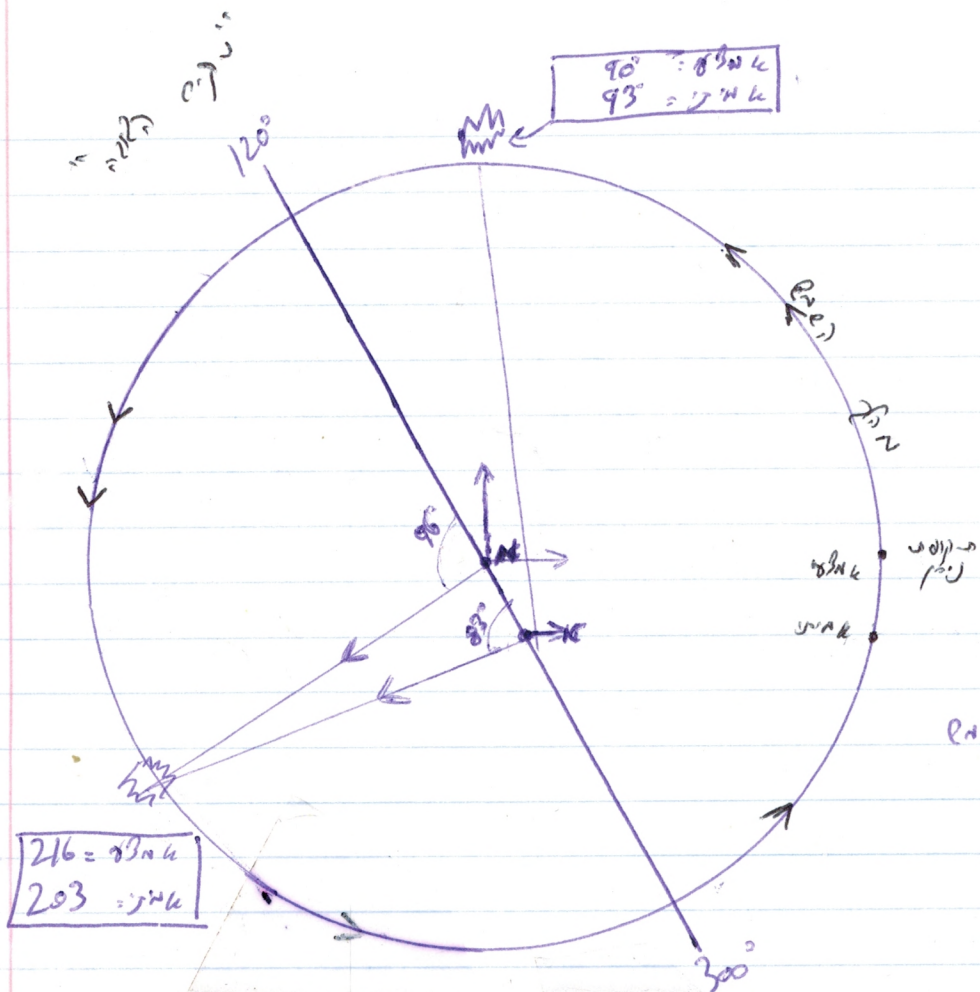
241.25

241.25 = 2.25  
= 239  
~~1150~~

NOV 24

example:





30,000,000,000 miles  
→ 700

5000 = N  
R/R  
84 = 10

→ 0.6

		rise		set		length		chatsos		alt
dec 3, 2006	7:02	AM	4:28	PM	9h 26m 05s	11:46	AM	27.1		
Dec 4, 2006	7:03	AM	4:28	PM	9h 24m 56s	11:46	AM	27.0		
Dec 5, 2006	7:04	AM	4:28	PM	9h 23m 51s	11:46	AM	26.9		
Dec 6, 2006	7:05	AM	4:28	PM	9h 22m 50s	11:47	AM	26.8		
Dec 7, 2006	7:06	AM	4:28	PM	9h 21m 52s	11:47	AM	26.7		
Dec 8, 2006	7:07	AM	4:28	PM	9h 20m 58s	11:48	AM	26.5		
Dec 9, 2006	7:08	AM	4:28	PM	9h 20m 07s	11:48	AM	26.4		

OCEAN pkwt, North

- ... עקב ארץ עולם חסד וחסד
- (1) ארץ עולם חסד וחסד
  - (2) ארץ עולם חסד וחסד
  - (3) ארץ עולם חסד וחסד
  - (4) ארץ עולם חסד וחסד
  - (5) ארץ עולם חסד וחסד
  - (6) ארץ עולם חסד וחסד
  - (7) ארץ עולם חסד וחסד

## The Northern Hemisphere Seasons, by Numerical Integration

